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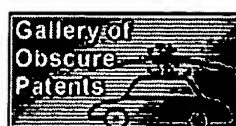
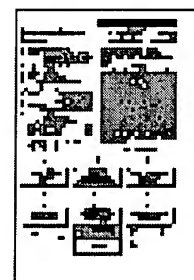
Buy Now: [More choices...](#)Tools: Add to Work File: [Create new Work File](#) View: [INPADOC](#) | Jump to: [Top](#) ☐ Go to: [Derwent...](#)☐ [Email this to a friend](#)Title: **JP2002042891A2: THIN-TYPE LITHIUM SECONDARY BATTERY**Country: **JP Japan**Kind: **A2 Document Laid open to Public inspection**Inventor: **KANO KOJI;
IWAHISA MASAHIRO;
HIBINO SEIJI;**Assignee: **TOSHIBA BATTERY CO LTD**
[News, Profiles, Stocks and More about this company](#)Published / Filed: **Feb. 8, 2002 / July 27, 2000**Application Number: **JP2000000227119**IPC Code: **H01M 10/40; H01M 2/16;**Priority Number: **July 27, 2000 JP2000000227119**

Abstract:

PROBLEM TO BE SOLVED: To provide a thin-type lithium secondary battery improved in the performance of a utilization factor or the like by uniformly dispersing a nonaqueous electrolyte filled in a power generating element.

SOLUTION: This thin-type lithium secondary battery is provided with the power generating element comprising a positive electrode, a negative electrode and a separator. The positive and negative electrodes and the separator contain at least the nonaqueous electrolyte and a polymer with a function of holding the electrolyte. When the power generating element is swollen containing the nonaqueous electrolyte, the area (mm²) of the power generating element/the thickness (mm) of the power generating element is 250-15,000. The nonaqueous electrolyte contains 0.01-1.0 mass% of at least one surface active agent selected out of an anionic surface active agent with a perfluoroalkyl group, and a nonionic surface active agent with a perfluoroalkyl group.

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IWAHISA MASAHIRO
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(74) Representative:

**(54) THIN-TYPE LITHIUM
SECONDARY BATTERY**

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